

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533837

Luminaire Tested: **GALN-SA9B-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30958 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

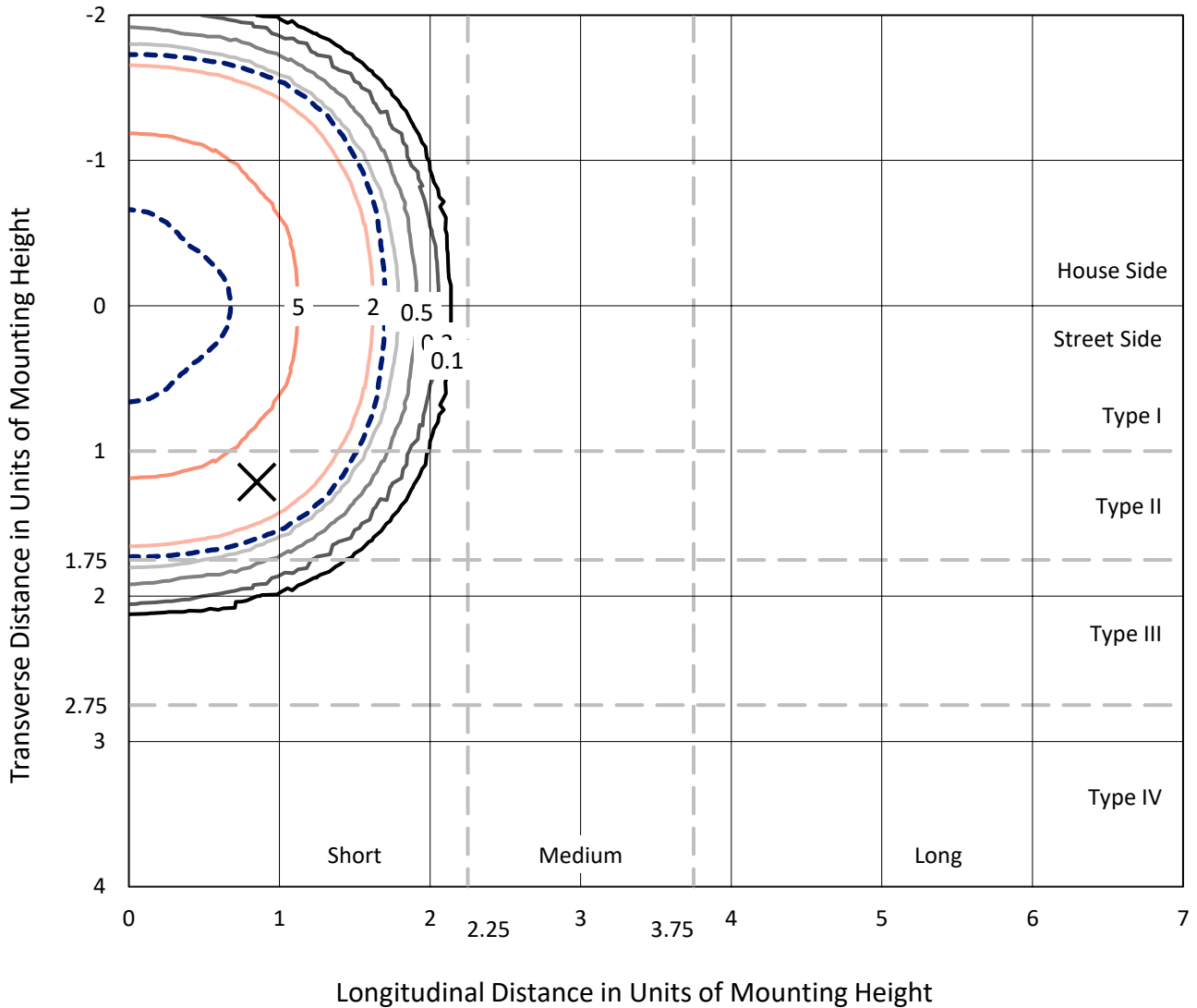
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

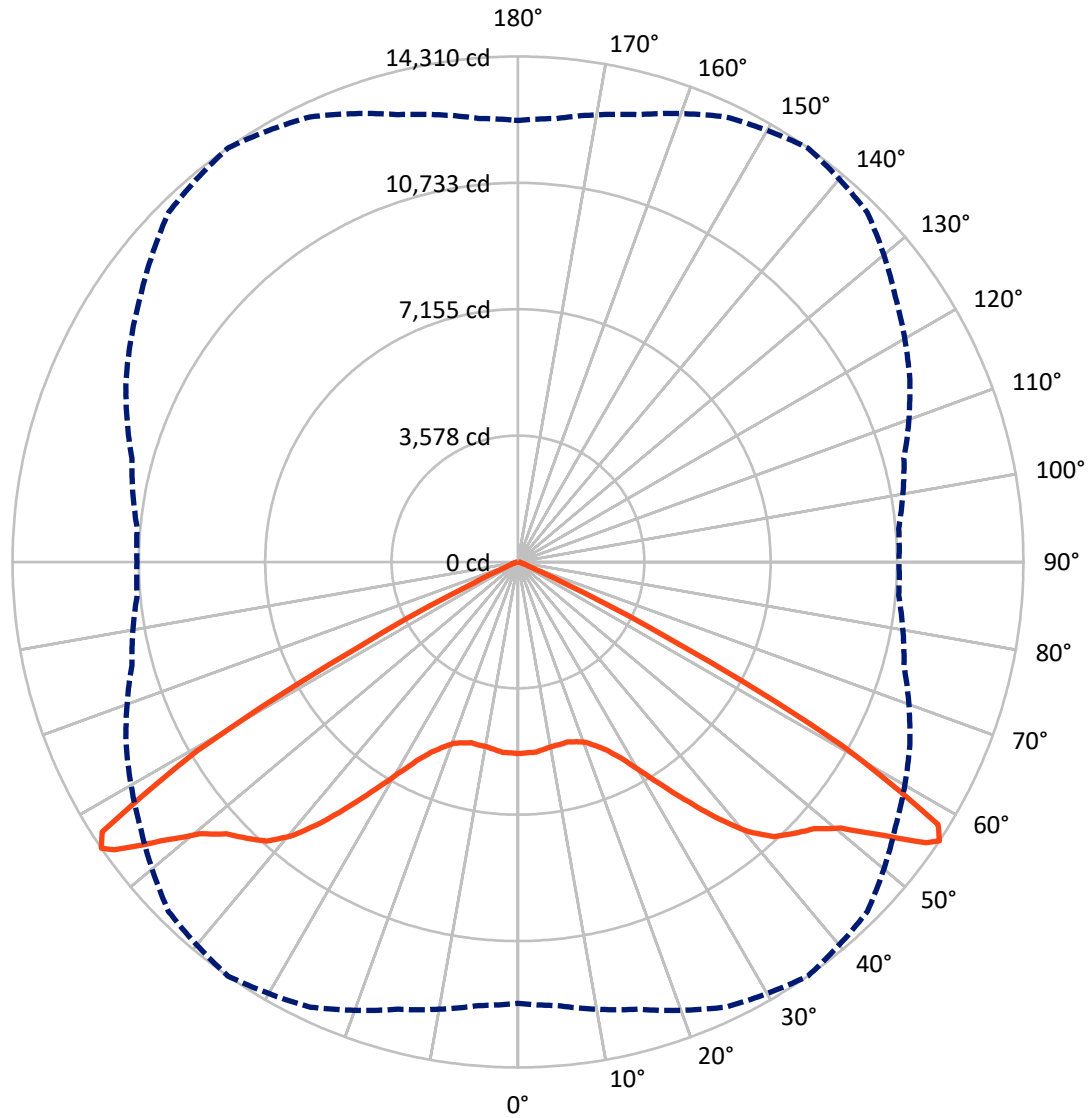
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15479.0	0.0	15479.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15479.0	0.0	15479.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30958.0	0.0	30958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.8	1.6
10°-20°	1488.4	4.8
20°-30°	2695.3	8.7
30°-40°	4998.1	16.1
40°-50°	8204.1	26.5
50°-60°	10569.3	34.1
60°-70°	2329.3	7.5
70°-80°	135.2	0.4
80°-90°	28.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	30958.0	100.0
0°-180°	30958.0	100.0

Coefficient of Utilization



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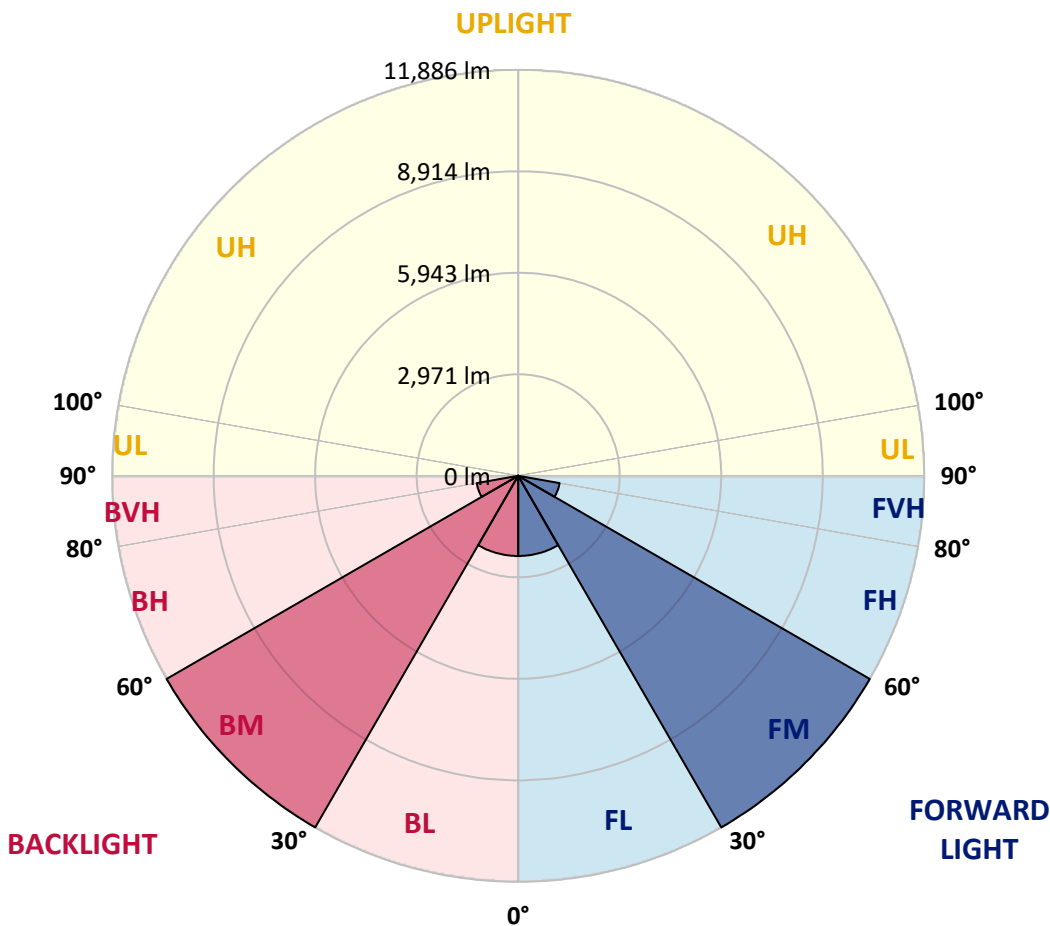
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2346.8	7.6			
FM (30°-60°)	11885.7	38.4			
FH (60°-80°)	1232.2	4.0			G1/1800
FVH (80°-90°)	14.2	0.0			G1/100
BL (0°-30°)	2346.8	7.6	B3/2500		
BM (30°-60°)	11885.7	38.4	B5		
BH (60°-80°)	1232.2	4.0	B3/2500		G1/1800
BVH (80°-90°)	14.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5424.5	5424.5	5424.5	5424.5	5424.5	5424.5	5424.5	5424.5	5424.5	5424.5	5424.5
2.5°	5435.7	5435.7	5441.3	5446.9	5407.7	5390.8	5396.5	5385.2	5379.6	5396.5	5396.5
5°	5418.9	5418.9	5402.1	5407.7	5407.7	5357.2	5357.2	5368.4	5368.4	5334.8	5323.5
7.5°	5374.0	5362.8	5340.4	5368.4	5351.6	5351.6	5312.3	5284.3	5273.0	5295.5	5273.0
10°	5278.7	5284.3	5306.7	5317.9	5306.7	5340.4	5273.0	5233.8	5194.5	5177.7	5177.7
12.5°	5233.8	5267.4	5233.8	5261.8	5301.1	5273.0	5233.8	5205.7	5149.6	5127.2	5127.2
15°	5228.2	5250.6	5261.8	5301.1	5284.3	5295.5	5217.0	5183.3	5099.1	5059.9	5043.1
17.5°	5222.6	5250.6	5267.4	5340.4	5351.6	5357.2	5295.5	5194.5	5121.6	5082.3	5043.1
20°	5284.3	5295.5	5329.1	5402.1	5446.9	5525.5	5413.3	5306.7	5149.6	5104.8	5087.9
22.5°	5362.8	5418.9	5452.6	5531.1	5648.9	5716.2	5570.4	5435.7	5273.0	5217.0	5149.6
25°	5615.2	5604.0	5660.1	5822.8	5918.2	5968.6	5850.8	5654.5	5441.3	5374.0	5385.2
27.5°	5929.4	5940.6	5991.1	6170.6	6310.8	6389.4	6249.1	5991.1	5783.5	5671.3	5660.1
30°	6338.9	6327.7	6383.8	6625.0	6877.4	6995.2	6748.4	6445.5	6243.5	6097.7	6131.3
32.5°	6770.8	6776.4	6933.5	7152.3	7561.8	7791.8	7393.5	7023.3	6720.3	6619.4	6568.9
35°	7410.3	7438.4	7561.8	7898.4	8352.7	8650.0	8212.5	7769.3	7421.5	7236.4	7258.9
37.5°	8201.3	8173.2	8380.8	8745.4	9222.2	9441.0	9070.8	8565.9	8212.5	8089.1	8167.6
40°	9042.7	9070.8	9177.3	9508.3	10041.2	10187.1	9637.3	9362.5	9053.9	8992.2	9087.6
42.5°	9884.2	9867.3	9945.9	10243.2	10630.2	10529.3	10203.9	10041.2	9822.5	9699.0	9828.1
45°	10501.2	10473.2	10619.0	10821.0	10961.2	10770.5	10624.6	10568.5	10456.3	10321.7	10439.5
47.5°	11101.4	11079.0	11219.3	11275.3	11286.6	11034.1	11062.2	11163.2	10882.7	10602.2	10736.8
50°	11611.9	11572.7	11746.6	11870.0	11841.9	11438.0	11539.0	11438.0	11000.5	10669.5	10619.0
52.5°	12464.6	12481.4	12666.5	12890.9	12823.6	12487.0	12341.2	11881.2	11320.2	11022.9	10849.0
55°	13003.1	12919.0	13238.7	13951.1	14029.7	13681.9	13036.8	12358.0	11516.6	11151.9	11107.1
56°	12498.2	12604.8	13109.7	13906.3	14310.2	13990.4	13053.6	12240.2	11314.6	10821.0	10787.3
57.5°	11213.6	11157.5	11841.9	12930.2	14029.7	13895.0	12593.6	11398.8	10321.7	9766.4	9699.0
60°	6978.4	7141.1	7741.3	9087.6	10557.3	10624.6	9334.4	8307.9	7051.3	6557.7	6675.5
62.5°	2731.9	2591.6	2967.5	3971.6	4981.3	5205.7	4717.7	3921.1	3219.9	2731.9	2698.2
65°	633.9	617.1	695.6	959.2	1340.7	1553.9	1475.3	1060.2	779.7	740.5	684.4
67.5°	359.0	359.0	342.2	342.2	375.8	398.3	381.5	375.8	392.7	409.5	403.9
70°	252.4	246.8	235.6	241.2	230.0	230.0	246.8	274.9	297.3	297.3	302.9
72.5°	151.5	151.5	151.5	168.3	168.3	168.3	185.1	207.6	213.2	207.6	201.9
75°	67.3	67.3	78.5	95.4	106.6	112.2	129.0	140.2	151.5	140.2	129.0
77.5°	16.8	16.8	28.0	39.3	50.5	61.7	84.1	101.0	106.6	101.0	84.1
80°	5.6	5.6	11.2	28.0	50.5	61.7	84.1	89.8	95.4	84.1	67.3
82.5°	5.6	5.6	11.2	28.0	39.3	50.5	67.3	78.5	84.1	72.9	67.3
85°	0.0	5.6	11.2	22.4	33.7	44.9	44.9	33.7	28.0	16.8	22.4
87.5°	0.0	0.0	5.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)